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CH Shu, ST Yang - Biotechnology and Bioengineering, 1990 - doi.wiley.com

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- [Genetic and physical analyses of a cluster of genes essential for xanthan gum biosynthesis in *Xanthomonas campestris*.](#)

Harding, N E / Cleary, J M / Cabañas, D K / Rosen, I G / Kang, K S,
Journal of Bacteriology, Dec 2003

Xanthomonas *campestris* produces copious amounts of a complex exopolysaccharide, **xanthan** gum. Nonmucoid mutants, defective in synthesis of **xanthan** polysaccharide, were isolated after nitrosoguanidine...mutagenesis. To isolate genes essential for **xanthan** polysaccharide synthesis (xps), a genomic...

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Souw, Peter / Demain, Arnold L., *Applied and Environmental Microbiology*, Dec 2003

...nutritional requirements of **Xanthomonas** *campestris* NRRL B1459 for optimal **xanthan** production were studied in...medium yielded the highest **xanthan** titers. The further addition...ketoglutarate, stimulated **xanthan** production; excess concentrations...

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Thorne, L / Tansey, L / Pollock, T J, *Journal of Bacteriology*, Dec 2003

Mutations that block the synthesis of **xanthan** gum by **Xanthomonas** *campestris* B1459S-4L-II were...Cloned fragments that restored **xanthan** gum synthesis (Xgs+; mucoidy...the genetic loci involved in **xanthan** synthesis. The clustering occurred...

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Fu, J F / Tseng, Y H, *Applied and Environmental Microbiology*, Dec 2003
Xanthomonas campestris pv. campestris possesses...and produce significant amounts of **xanthan** gum in a medium containing lactose...containing lactose. Production of **xanthan** gum in lactose or diluted whey by...and it was found to produce as much **xanthan** gum in these substrates as the cells...

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- ☐ 5. [Sequential assembly and polymerization of the polyprenol-linked pentasaccharide repeating unit of the xanthan polysaccharide in Xanthomonas campestris.](#)
Ielpi, L / Couso, R O / Dankert, M A, *Journal of Bacteriology*, Dec 2003
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Kamoun, Sophien / Kado, Clarence I., *Applied and Environmental Microbiology*, Dec 2003
 The chemotaxis towards sucrose and yeast extract of nine strains of **Xanthomonas** campestris representing pathovars campestris, armoraciae, translucens, vesicatoria, and pelargonii was analyzed by using swarm...

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Katzen, F / Becker, A / Zorreguieta, A / PÃ¼hler, A / Ielpi, L,
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The **Xanthomonas** campestris gum gene cluster is composed of 12 genes designated gumB, -C, -D, -E, -F, -G, -H, -I, -J, -K, -L, and -M. The transcriptional...

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Kalogiannis, S. / Iakovidou, G. / Liakopoulou-Kyriakides, M. / Kyriakidis, D.A. / Skaracis, G.N., *Process Biochemistry*, Oct 2003

...Optimization of **xanthan** gum production by **Xanthomonas** campestris grown...Thessaloniki 54124, Greece **Xanthan** gum production by **Xanthomonas** campestris ATCC...1 Introduction **Xanthan** gum, the exopolysaccharide from **Xanthomonas** campestris pv campestris...

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- ☐ 13. *Xanthomonas campestris* pv. *campestris* gum Mutants: Effects on Xanthan Biosynthesis and Plant Virulence

Katzen, Federico / Ferreira, Diego U. / Oddo, Cristian G. / Ielmini, M. VerÃ³nica / Becker, Anke / PÃ¼hler, Alfred / Ielpi, Luis, *Journal of Bacteriology*, Sep 2002

Xanthan is an industrially important exopolysaccharide produced by the phytopathogenic, gram-negative bacterium **Xanthomonas** campestris pv. campestris. It is composed of polymerized...Finally, we found that alterations in the later stages of **xanthan** biosynthesis reduce the aggressiveness of X. campestris...

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- ☐ **14. Chromosome Map of *Xanthomonas campestris* pv. *campestris* 17 with Locations of Genes Involved in Xanthan Gum Synthesis and Yellow Pigmentation**
Tseng, Yi-Hsiung / Choy, Ka-Tim / Hung, Chih-Hsin / Lin, Nien-Tsung / Liu, Jane-Yu / Lou, Chih-Hong / Yang, Bih-Ying / (...) / Wu, Jung-Rung, *Journal of Bacteriology*, Sep 2002
 No plasmid was detected in **Xanthomonas** *campestris* pv. *campestris* 17, a strain...eps loci involved in exopolysaccharide (**xanthan** gum) synthesis, two rrn operons each...for genetic studies of this and related **Xanthomonas** species.

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 An unstructured kinetic model for **xanthan** production is described and fitted to...evolution of biomass, and production of **xanthan**. The parameter estimation has been performed...data. Runs of the model for simulating **xanthan** gum production as a function of the initial...

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Kiosseoglou, A. / Papalamprou, E. / Makri, E. / Doxastakis, G. / Kiosseoglou, V., *Food Research International*, Jan 2003
 ...molecular weight **xanthan** gum produced by **Xanthomonas** *Campestris* ATCC...Thessaloniki, Greece **Xanthan** gum of medium...was produced by **Xanthomonas** *Campestris* ATCC...Kyriakidis D.A. **Xanthan** gum production by **Xanthomonas** *Campestris* wet...

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- ☐ **18. Isolation of a *Xanthomonas campestris* strain with elevated beta-galactosidase activity for direct use of lactose in xanthan gum production.**
Yang, T-C / Wu, G-H / Tseng, Y-H, *Letters in applied microbiology*, Jan 2002
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Hung, Chih-Hsin / Wu, Hsung-Chi / Tseng, Yi-Hsiung, *Biochemical and biophysical research communications*, Feb 2002
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Mongkolsuk, S / Loprasert, S / Whangsuk, W / Fuangthong, M / Atichartpongkun, S, Journal of Bacteriology, Oct 2003
...transcription organization of ahpC, ahpF, oxyR, and **orfX** from **Xanthomonas** campestris pv. phaseoli. ahpC was transcribed as a monocistronic 0.6-kb mRNA, while ahpF-oxyR-**orfX** were transcribed as a polycistronic approximately 3...

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Mongkolsuk, S / Loprasert, S / Whangsuk, W / Fuangthong, M / Atichartpongkun, S, Journal of bacteriology, Jun 1997

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- ☐ 4. [Characterization of Xanthomonas oryzae pv. oryzae recX, a gene that is required for high-level expression of recA](#)
Sukchawalit, R. / Vattanaviboon^a, P. / Utamapongchai^a, S. / Vaughn, G. / Mongkolsuk^{a,b}, S., *FEMS Microbiology Letters*, Nov 2001
 ...organization of *recA*-**orfX**-*recX* in various **Xanthomonas**, genomic DNA was extracted...regulation of the *recA*-**orfX**-*recX* operon in **Xanthomonas** spp. A: Northern analysis...conservation of the *recA*-**orfX**-*recX* locus in various **Xanthomonas** spp. Lanes: 1, *X. campestris*...

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- ☐ 5. [Isolation and analysis of the Xanthomonas alkyl hydroperoxide reductase gene and the peroxide sensor regulator genes *ahpC* and *ahpF*-*oxyR*-*orfX*.](#)
Loprasert, S / Atichartpongkun, S / Whangsuk, W / Mongkolsuk, S., *Journal of bacteriology*, Jun 1997
 From **Xanthomonas campestris** pv. *phaseoli*...unknown function (**orfX**). Amino acid sequence...bacterial homologs. **OrfX** was a small cysteine-rich...*ahpC*, *ahpF*, *oxyR*, and **orfX** were arranged in a...conserved in all of the **Xanthomonas** strains tested. The...

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- ☐ 6. [Characterization of Xanthomonas oryzae pv. oryzae recX, a gene that is required for high-level expression of recA.](#)
Sukchawalit, R / Vattanaviboon, P / Utamapongchai, S / Vaughn, G / Mongkolsuk, S., *FEMS microbiology letters*, Nov 2001
 ...nucleotide sequence downstream from the **Xanthomonas oryzae** pv. *oryzae* *recA* gene reveals two orfs designated **orfX** and *recX*. The former has the potential...analysis and RT-PCR results show that *recA*-**orfX**-*recX* are co-regulated and arranged in...

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- ☐ 7. [BLAST Search Results \[181K\]](#)
 Jul 2003
 BLASTP 2.2.1 [Apr-13-2001] Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", *Nucleic Acids Res.* 25:3389-3402.
[more hits from \[http://xcc.life.nthu.edu.tw/HP/hypo_HP_blast_html/html...\]](#)
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- ☐ 8. [Characterization of a ferric uptake regulator \(*fur*\) gene from Xanthomonas](#)

campestris pv. phaseoli with unusual primary...

Loprasert, S. / Sallabhan, R. / Atichartpongkul, S. / Mongkolsuk, S.,
Gene, Nov 1999

...17.8 kDa and a p I of 11.9. **orfX** locates 191 and 31 bp from
the...significant homology was found between **OrfX** and other proteins. The
plasmid...and Sanden, 1995). However, **orfX** is absent from the locus in B.
pertussis . Phytopathogen **Xanthomonas** and a human-animal pathogen...

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☐ **9. Untitled Normal Page [8K]**

Sep 1999

...regulator operon ahpF-oxyR-**orfX** from **Xanthomonas** campestris pv.
phaseoli...and analysis of the **Xanthomonas** alkyl hydroperoxide...ahpC
and ahpFoxyR-**orfX**. J Bacteriol. 179...in the phytopathogen **Xanthomonas**
oryzae pv. Oryzae...

[<http://www.psu.ac.th/rgj/Skorn.htm>]

[similar results](#)

☐ **10. AhpF and other NADH : peroxiredoxin oxidoreductases homologues of low**

[PDF-49K]

Nov 2000

...P35340 P, O, DH [1,12,22,59] Klebsiella pneumoniae Contig 1065
Washington University Shewanella putrefaciens Contig 5551 TIGR
Xanthomonas campestris pv. phaseoli O06465 [17,18] Pseudomonas
putida O82864 [23] (F. Fukumori and K. Horikoshi, unpublished results...
[more hits from](http://scbtrack.wfu.edu/Poole-files/PooleEJBrev.pdf) [<http://scbtrack.wfu.edu/Poole-files/PooleEJBrev.pdf>]

[similar results](#)

☐ **11. Oxidant-inducible resistance to hydrogen peroxide killing in Agrobacterium tumefaciens requires the global peroxide...**

Eiamphungporn, W. / Nakjarung, K. / Prapagdee, B. /

Vattanaviboon, P. / Mongkolsuk, S., FEMS Microbiology Letters, Aug
2003

...responses have been made in E. coli and **Xanthomonas** campestris [19-
21] . The data suggest...killing in a bacterial phytopathogen,
Xanthomonas oryzae pv. oryzae FEMS Microbiol. Lett...OxyR, in mediating
the response in **Xanthomonas** FEMS Microbiol. Lett. 176 1999 471 476...

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☐ **12. 1 [PDF-90K]**

Aug 2003

LITERATURVERZEICHNIS 132 6. LITERATURVERZEICHNIS ADAMS, M. W.
W.; JENNEY Jr., F. E., CLAY, M. D., JOHNSON, M. K. (2002) Superoxide
reductase: fact or fiction. J. Biol. Inorg. Chem. 7: 647-652 AGUILAR-
BRYAN, L., NICHOLS, C. G., WECHSLER, S. W., CLEMENT, J. P. T., BOYD, A.
E. I., GONZALEZ, G.

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[similar results](#)

☐ **13. Unusual adaptive, cross protection responses and growth phase resistance against peroxide killing in a bacterial shrimp...**

Vattanaviboon^a, P. / Mongkolsuk^{a,b}, S., FEMS Microbiology Letters, Jun
2001

...stationary phase cells (Stationary) and from the control **Xanthomonas**
campestris ahpC1 mutant (ahpC1) and ahpC1 harboring

expression...detoxification enzyme. A similar observation has been observed in **Xanthomonas** sp. [20] . Other factors such as alterations in cell wall...

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☐ **14. MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS** [PDF-348K]

Nov 2002

MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS, 1092-2172/98/

\$04.00 0 Sept. 1998, p. 725774 Vol. 62, No. 3 Copyright © 1998, American Society for Microbiology. All Rights Reserved.

[<http://www.qub.ac.uk/mlpage/courses/level3/isreview.pd...>]

[similar results](#)

☐ **15. Salicylic Acid and NIM1/NPR1 - Independent Gene** [PDF-73K]

Sep 2001

...pression profiling, NahG plants, **ORFX**. Plants are in frequent contact...and has strong similarity to **ORFX**, a tomato protein

implicated...that is induced in response to **Xanthomonas campestris** inoculation (Aufsatz...SAR AAF79233.1 16.7 TMD Tomato **ORFX** (3e-41)

NIR1 NIR BAB10494.1...

[<http://www.apsnet.org/mpmi/pdfs/2001/0726-03R.pdf>]

[similar results](#)

☐ **16. The Burkholderia pseudomallei oxyR gene: expression analysis and mutant characterization**

Loprasert, S. / Sallabhan, R. / Whangsuk, W. / Mongkolsuk, S.,
Gene, Aug 2002

...from ahpC (Deretic et al., 1997) in **Xanthomonas** , ahpC , ahpF and oxyR are adjacent and...37% for E . coli (P11721), 36% for **Xanthomonas campestris** (U94336) and Erwinia chrysanthemi...2000) and in X . campestris ahpF-oxyR-**orfX** are transcribed as a polycistronic mRNA...

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☐ **17. Characterization and mutagenesis of fur gene from Burkholderia pseudomallei**

Loprasert, S. / Sallabhan, R. / Whangsuk, W. / Mongkolsuk, S.,
Gene, Aug 2000

...AF050676), and Klebsiella pneumoniae (L23871), 52% Vibrio cholerae (M85154), and 50% for Haemophilus ducreyi (JC5097) and **Xanthomonas campestris** pv. phaseoli (AF146829). Bp Fur has a highly conserved metal-binding motif, H 3 -X-H-X 2 -C-X 2 -CG (Coy et al...

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☐ **18. Inhaltsverzeichnis** [PDF-355K]

Oct 2002

...Minute usw. und so weiter ÜN über Nacht V Volt v/v Volumeneinheit pro Volumeneinheit w/v Masseneinheit pro Volumeneinheit X. **Xanthomonas campestris** X-Gal 5-Brom-4-chlor-3-indolyl-β-D-galactopyranosid Symbole für Aminosäuren A Ala Alanin C Cys Cystein D Asp...

[<http://webdoc.sub.gwdg.de/diss/2002/entcheva/entcheva....>]

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☐ **19. Modulation of peroxide stress response by thiol reagents and the role of a redox sensor-transcription regulator, OxyR...**

Vattanaviboon, P. / Varaluksit, T. / Mongkolsuk, S., FEMS

Microbiology Letters, Jul 1999

...physiological analysis of a **Xanthomonas** mutant to examine the...regulator operon ahpF-oxyR-**orfX** from **Xanthomonas** campestris pv. phaseoli...and analysis of the **Xanthomonas** alkyl hydroperoxide...ahpC and ahpF-oxyR-**orfX** J. Bacteriol. 179 1997...

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☐ **20. No Title** [ASCII-144K]

Mar 2000

LOCUS EAU67194 53339 bp DNA circular BCT 19-OCT-1998 DEFINITION

Enterobacter aerogenes plasmid R751, complete plasmid sequence.

ACCESSION U67194 U08908 L13688 VERSION U67194.1 GI:1572520

KEYWORDS . SOURCE Enterobacter aerogenes.

[<http://www.biochem.ucl.ac.uk/bsm/PLASMID/R751genbk.fcg...>]

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